



حکومت سندھ
Government of Sindh



A Showcase of Resources for Working with Smallholder Farmers

Presented

by

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Outline

- Small ruminant project team has created different resources for the easiness of farmers/facilitators and for themselves during their field activities.
- All the resources were designed according to challenges encountered during project activities
- Small ruminant team tried to come over all the challenges by creating the following resources

Resources are:

BCS Protocol
and trainings

Commcare
App

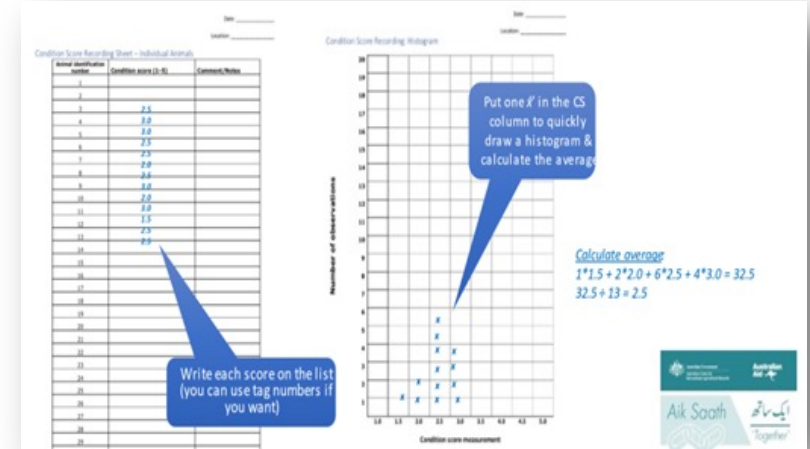
Extension
material

FAMACHA

Facilitator
guide

BCS Protocol & Trainings

- BCS helps management decisions regarding health, and quantity and quality of feed needed to optimize performance.
- developed presentation, factsheets as well as BCS measuring sheet for body condition scoring of sheep and goat.
- delivered trainings on BCS to local farmers and to collaborative organizations.



Extension Material

- The aim of developing extension materials to deliver the information correctly and effectively.

1. Module

- SR Management
- Diseases
- Feeding practices
- Vaccination
- Treatment
- Breeds



Continued....

3. Pictorial factsheets

- Brucellosis
- Diarrhea
- Creep feeding

BRUCELLOSIS

Causes

- Brucellosis is an infection caused by the germ **Brucella**.
- Brucella can infect:
 - sheep
 - camel
 - buffalo
 - goat
 - cattle
 - humans

Prevention

- Take safety precautions in high-risk workplaces
- Pasteurize dairy food
- Cook meat thoroughly

Spread

- Placenta, Fetus, Fetal fluids, Milk, Semen and vaginal discharges from infected sheep and goat
- Vaccinate animals
- Wear gloves when handling animals with signs of brucellosis

Signs

In doe and ewe

- Abortions in late pregnancy
- Stillbirths
- Weak newborns
- Retained placentas
- Mastitis

In buck and ram

- Ongoing infertility
- Swollen testicles
- Occasionally infected animals will have swollen joints

In humans

- Flu-like symptoms
- May include:
 - High fever
 - Headache
 - Weakness
- Joint and muscle pain
- loss of weight and appetite

Pregnant women and their babies are at significant risk. If left untreated, infection may cause birth defects or abortion

DIARRHEA

- Parasitic worm infections
- Consuming certain plants can cause diarrhoea

Causes

- Infections due to germs
- Sudden changes in feed, including rapid increases of lush, green feed, starchy feeds like wheat or barley

Signs

- The feces become soft
- It becomes runny, watery or it contains mucus
- In the worst type of diarrhea it becomes blood-stained.

Although animals can naturally develop soft feces when eating lush green feed, diarrhea caused by a disease tends to cause:

- weight loss,
- decreased appetite,
- lethargy or depression,
- or fever.

Prevention

- Feed colostrum to new born kid and lamb after birth for good immunity
- Gradually introduce new feed over 1 week, even longer for starchy food like wheat
- Isolate goat or sheep with diarrhea from the rest of the herd. Sick kid or lamb should be separated with their mother.
- Wash hands, feet and footwear thoroughly with soap and water after handling or treating affected animals.
- Keep housing and pen areas clean

(CREEP FEEDING

Advantages

- Improves survival of young goats and sheep and can increase resilience to disease
- Cost-effective as it prevents feed consumption by older animals
- Helps prepare lambs and kids for successful grazing after weaning
- Lambs and kids can fetch higher prices and be marketed at an earlier age

When to start it

For animals from 3 weeks up to 6 months old. Open the creep pen to the dams as well for a few days so that they can train their young to eat the feed.

How to set it up

- Wood or bamboo
- No access for Adults
- Free access for kids/ lambs
- Food and Water

How much to feed

Amount of feed to offer to young animals in the household

NUMBER OF ANIMALS	CREEP FEED PER DAY		
	Pounds	Kilogram	Handfuls
2	1	0.5	3
4	2	0.75	5
6	2.5	1.25	8
8	3.5	1.5	11
10	4.5	2	13

Choose ONE column of measuring unit you are familiar with

Facilitator Guide

- The purpose of developing facilitator guide to provide roadmap for facilitators.
- **Facilitator guide covered:**
 - Overview session
 - Objectives
 - Technical sessions
 - Topics (creep feeding, brucellosis and diarrhea)
 - Activities

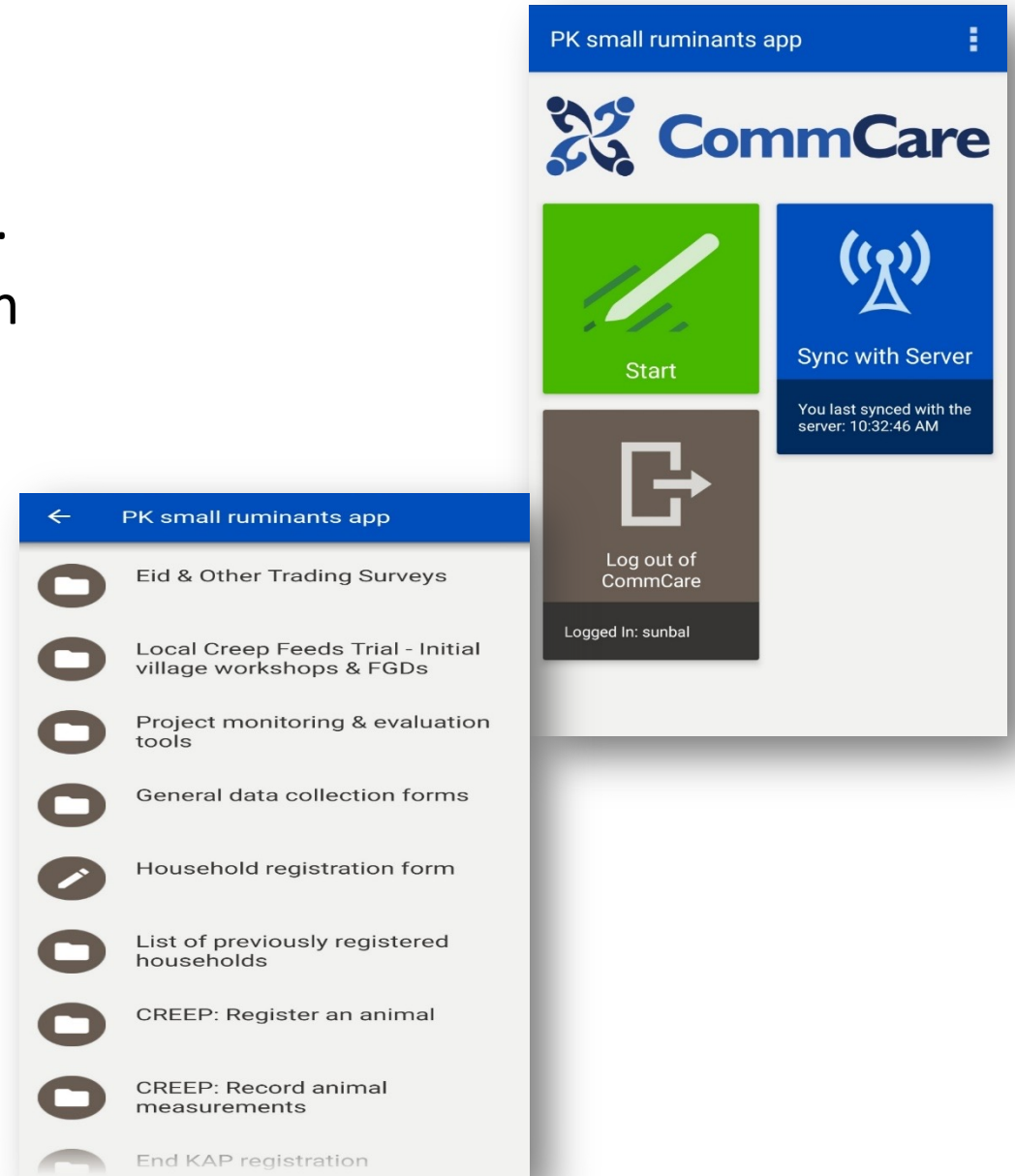
CommCare App

- Build a smarter data collection app that works offline and tracks data overtime with Commcare.
- Commcare used for easy data collection, decision support, better supervision and job aid during project trials and other activities.

Questionnaires developed for field activities:

- Eid surveys
- Village workshop and FGDs
- Household registration
- Creep registered animals
- Creep record animal measurement
- KAP surveys
- Project evaluation and monitoring tool

*Web link: <https://www.commcarehq.org/accounts/login/>



FAMACHA

- Already commercially available tool to access anemia.
- Used this technique during research trials as well as trained farmers regarding FAMACHA
- We used FAMACHA as a research tool to identify anemic condition of animal
- In 'Hc' (Haemonchus contortus) areas, FAMACHA could be used for effective drench decision-making



Thank You



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